

AMENDMENTS TO THE SPECIFICATION

IN THE SPECIFICATION

On page 5, line 24, please replace the original paragraph with the following amended paragraph:

-- In another aspect, the invention provides a glucose dehydrogenase having pyrroloquinoline quinone as a coenzyme comprising one of the sequences as follows:

Cys Gly Glu Xaa Thr Tyr Ile (SEQ ID NO: 3)

(wherein Xaa is Met or Trp)

Gly Glu Met Xaa Tyr Ile Cys (SEQ ID NO: 4)

(wherein Xaa is Asp, Lys, Ile or Asn)

Glu Met Thr Asp Ile Cys Trp (SEQ ID NO: 5)

Met Thr Tyr Asp Cys Trp Pro (SEQ ID NO: 6)

Thr Tyr Ile Arg Trp Pro Thr (SEQ ID NO: 7) and

Pro Thr Val Pro Pro Ser Ser (SEQ ID NO: 8).--

On page 12, line 3, please replace the original paragraph with the following amended paragraph:

-- Mutagenesis was carried out based on the structural gene of PQQGDH derived from *Acinetobacter calcoaceticus* (SEQ ID NO:2). pGB2 plasmid was constructed by inserting the structural gene of PQQGDH derived from *Acinetobacter calcoaceticus* into the multi-cloning site of pTrc99A vector (Pharmacia) (Fig.1). Wild type gene sequence encoding PQQGDH was replaced with altered gene sequence encoding modified PQQGDH by standard method as previously described. Site specific mutagenesis was performed using the pGB2 plasmid as shown in Fig.2. The sequences of synthetic

oligonucleotides used for mutagenesis are shown below. In order to construct a mutant containing two mutations, two oligonucleotide primers were used simultaneously for mutagenesis.

Met365Trp 3'-GT TGA ACA CCT CTC CCA TGG ATG TAA AC-5' (SEQ ID NO: 9)

Met365Phe 3'-GT TGA ACA CCT CTC CCT TGG ATG TAA AC-5' (SEQ ID NO: 10)

Thr366Asn 3'-GGT TGA ACA CCT CTC TAC TTG ATG TAA ACG AC-5' (SEQ ID NO: 11)

Thr366Ile 3'-GGT TGA ACA CCT CTC TAC TAG ATG TAA ACG AC-5' (SEQ ID NO: 12)

Thr366Asp 3'-GA ACA CCT CTC TAC CTG ATG TAA ACG ACC G-5' (SEQ ID NO: 13)

Thr366Lys 3'-GA ACA CCT CTC TAC TTT ATG TAA ACG ACC G-5' (SEQ ID NO: 14)

Tyr367Asp 3'-GGT TGA ACA CCT CTC TAC TGG CTG TAA ACG ACC-5' (SEQ ID NO: 15)

Ile368Asn 3'-AC TGG ATG TTA ACG ACC GG-5' (SEQ ID NO: 16)

Cys369Arg 3'-GG ATG TAA ACG ACC GGT TGT C-5' (SEQ ID NO: 17)

Ala374Pro 3'-C GGT TGT CAA GGT GGC AGT AGA CG-5' (SEQ ID NO: 18)

Asp167Glu 3'-GGA AGT AGT TTT CTT GTA GTC AGT CC-5' (SEQ ID NO: 19) --